PTO/SB/21 (09-04)

PTO/SB/21 (09-04) Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number Application Number 09/534,682 Filing Date TRANSMITTAL March 24, 2000 First Named Inventor Lloyd Watts **FORM** Art Unit 2644 Examiner Name Devona E. Faulk correspondence after initial filing) Attorney Docket Number **PA2994US** of Pages in This Submission **ENCLOSURES** (Check all that apply) After Allowance Communication to TC Fee Transmittal Form Drawing(s) Appeal Communication to Board Licensing-related Papers Fee Attached of Appeals and Interferences Appeal Communication to TC Petition (Appeal Notice, Brief, Reply Brief) Amendment/Reply Petition to Convert to a Proprietary Information After Final Provisional Application Power of Attorney, Revocation Status Letter Change of Correspondence Address Affidavits/declaration(s) Other Enclosure(s) (please Identify Terminal Disclaimer below): Extension of Time Request 1) Confirmation Postcard; Request for Refund Express Abandonment Request 2) Duplicate of Supplemental IDS (2pp); 3) PTO/SB/08 (x2); CD, Number of CD(s) 4) List of Co-Pending Applications (1p, x2); Information Disclosure Statement 5) Copies of 13 Cited References; Landscape Table on CD 6) Check for \$180.00 Certified Copy of Priority Remarks Document(s) Total page number does not include postcard, check or copies of cited references. Reply to Missing Parts/ Incomplete Application Reply to Missing Parts under 37 CFR 1.52 or 1.53 SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT Firm Name Carr & Ferrell LLP Cust. No. 22830

CERTIFICATE OF TRANSMISSION/MAILING I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below: Signature Susan Yee, Reg. No. 41,388

Reg. No.

41,388

Signature

Date

Printed name

Susan Yee

August 4, 2005

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions deviced in the burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/17 (12-04)

Approved for use through 07/31/2006. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number Complete if Known Effective on 12/08/2004. ours and the Consolidated Appropriations Act, 2005 (H.R. 4818). 09/534.682 Application Number March 24, 2000 Filing Date AUG 0 8 2005 For FY 2005 Lloyd Watts First Named Inventor Devona E. Faulk **Examiner Name** Applicant claims small entity status. See 37 CFR 1.27 Art Unit 2644 TOTAL MINE OF PAYMENT (\$) 180.00 PA2994US Attorney Docket No. METHOD OF PAYMENT (check all that apply) ✓ Check Credit Card None Money Order Other (please identify): Deposit Account Name: Carr & Ferrell LLP ✓ Deposit Account Deposit Account Number: 06-0600 For the above-identified deposit account, the Director is hereby authorized to: (check all that apply) Charge fee(s) indicated below Charge fee(s) indicated below, except for the filing fee Charge any additional fee(s) or underpayments of fee(s) Credit any overpayments under 37 CFR 1.16 and 1.17 WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038. **FEE CALCULATION** 1. BASIC FILING, SEARCH, AND EXAMINATION FEES **FILING FEES** SEARCH FEES **EXAMINATION FEES** Small Entity **Small Entity Small Entity Application Type** Fee (\$) Fees Paid (\$) Fee (\$) Fee (\$) Fee (\$) Fee (\$) Fee (\$) Utility 300 500 200 150 100 250 Design 200 100 100 50 130 65 200 Plant 100 300 150 160 80 Reissue 300 150 500 250 600 300 200 Provisional 100 0 0 0 0 2. EXCESS CLAIM FEES **Small Entity** Fee (\$) Fee Description Fee (\$) Each claim over 20 or, for Reissues, each claim over 20 and more than in the original patent 25 Each independent claim over 3 or, for Reissues, each independent claim more than in the original patent 200 100 360 180 Multiple dependent claims **Multiple Dependent Claims Total Claims** Fee Paid (\$) **Extra Claims** Fee (\$) Fee Paid (\$) HP = highest number of total claims paid for, if greater than 20 Indep. Claims Extra Claims Fee Paid (\$) Fee (\$) - 3 or HP = HP = highest number of independent claims paid for, if greater than 3 3. APPLICATION SIZE FEE If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s). Number of each additional 50 or fraction thereof Extra Sheets Fee Paid (\$) (round up to a whole number) x / 50 = 4. OTHER FEE(S) Fees Paid (\$) Non-English Specification, \$130 fee (no small entity discount) Other: Information Disclosure Statement Fee

SUBMITTED BY			
Signature	Men Lee	Registration No. (Attorney/Agent) 41,388	Telephone 650-812-3400
Name (Print/Type)	Susan Yee		Date August 4, 2005

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT:

Lloyd Watts

SERIAL NUMBER:

09/534,682

FILING DATE:

March 24, 2000

TITLE:

Efficient Computation of Log-Frequency-Scale Digital

Filter Cascade

EXAMINER:

Devona E. Faulk

ART UNIT:

2644

ATTY. DKT. NO.:

PA2994US

MAIL STOP AMENDMENT COMMISSIONER FOR PATENTS P.O. BOX 1450 ALEXANDRIA, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT Under 37 C.F.R. §§ 1.56, and 1.97-1.98

SIR:

Pursuant to the provisions of 37 C.F.R. §§ 1.56 and 1.97-98 of the Rules of Practice in Patent Cases, enclosed herewith is form PTO-SB-08 and a List of Co-Pending Patent Applications, listing several references; copies of the cited references are enclosed. Copies of the co-pending applications are not enclosed, as the applications are available via the Patent Application Information Retrieval system. As such, submission is not required under 37 C.F.R. § 1.98(a)(2)(iii).

The Examiner is requested to make these references of official record in this application. The references cited may be material to examination of the application and are submitted in compliance with Applicant's duty of disclosure as defined by 37 C.F.R. § 1.56.

08/09/2005 CNGUYEN2 00000006 09534682

01 FC:1806

180.00 OP

No representation is made or intended as to the completeness of this list, nor is the inclusion of any reference on this list an admission that it is prior art or pertinent to this application.

Applicant hereby attaches the \$180 fee required by 37 C.F.R. §1.17(p) with this submission. The Commissioner is hereby authorized to charge Deposit Account No. 06-0600 for any additional fees that may be required, or credit our account for any overpayment charge. A copy of this statement is submitted in duplicate for this purpose.

Respectfully submitted, Lloyd Watts

Dated: August 4, 2005

By: Suranter

Susan Yee, Keg. No. 41,388

Carr & Ferrell *LLP*

2200 Geng Road Palo Alto, CA 94303

TEL: (650) 812-3400

FAX: (650) 812-3444

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date printed below:

Dated: August 4, 2005

Susan Voor Rog No. 1

Susan Yee/Reg. No. 41,388

Approved for use through 07/31/2006. OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Superfute for form 1449/PTO

AUG 0 8 2005

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Application Number	09/534,682	
Filing Date	March 24, 2000	
First Named Inventor	Lloyd Watts	
Art Unit	2644	
Examiner Name	Devona E. Faulk	
Attorney Docket Number	PA2994US	

Complete if Known

			U. S. PATENT	DOCUMENTS	_
Examiner Initials*	Cite No.1	Document Number Number-Kind Code ^{2 (if known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		^{US-} 4,433,604	02-28-1984	Ott	
		^{US-} 4,812,996	03-14-1989	Stubbs	
		^{US-} 5,187,776	02-16-1993	Yanker	
		^{US-} 5,675,778	10-07-1997	Jones	
•		^{US-} 5,792,971	08-11-1998	Timis et al.	
		^{US-} 6,140,809	10-31-2000	Doi	
<u></u>		^{US-} 6,513,004 B1	01-28-2003	Rigazio et al.	
		^{US-} 2002/0147595 A1	10-10-2002	Baumgarte	
		US-			
-		US-			
		US-			
		US-			
-		US-			
		US-		·	
		US-			

	FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages			
	:	Country Code ^{3 -} Number ^{4 -} Kind Code ⁵ (<i>if known</i>)	MM-DD-YYYY		Or Relevant Figures Appear	1		
			,					
						Г		

Examiner	Date	
Signature	Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449/PTO		Complete if Known			
Substitut	e 101 101111 1445/F 1 O			Application Number	09/534,682
INFO	RMATION	DIS	CLOSURE	Filing Date	March 24, 2000
STA	TEMENT E	BY A	PPLICANT	First Named Inventor	Lloyd Watts
	// lee as many she	note ae n	ocossani)	Art Unit	2644
(Use as many sheets as necessary)				Examiner Name	Devona E. Faulk
Sheet	2	of	2	Attorney Docket Number	PA2994US

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		JEONG et al., "Implementation of a New Algorithm Using the STFT with Variable Frequency Resolution for the Time-Frequency Auditory Model," Journal of Audio Eng. Soc., Vol. 47, No. 4, April 1991, pp. 240-251.	
		Syntrillium Software Corporation, "Cool Edit User's Manual," 1996, pp. 1-74.	
		WATTS, "Robust Hearing Systems for Intelligent Machines," Applied Neurosystems Corporation, 2001, pp. 1-5.	
		LIPPMANN, "Speech Recognition by Machines and Humans," Speech Communication 22, 1997, pp. 1-15.	
		HERMANSKY, "Should Recognizers Have Ears?" in the Proc. ESCA Tutorial and Research Workshop on Robust Speech Recognition for Unknown Communication Channels, France, 1997, pp. 1-10.	
			*

Examiner	Date	
Signature	Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



IN THE

UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT:

Lloyd Watts

APPLICATION NO.:

09/534,682

FILED:

March 24, 2000

TITLE:

Efficient Computation of Log-Frequency-Scale Digital Filter

Cascade

EXAMINER:

Devona E. Faulk

GROUP ART UNIT:

2644

ATTY.DKT.NO.:

PA2994US

MAIL STOP AMENDMENT COMMISSIONER FOR PATENTS P.O. BOX 1450 ALEXANDRIA, VA 22313-1450

<u>List of Co-Pending Patent Applications That May Be Directed</u> <u>Towards Similar Subject Matter</u>

Examiner's Initials	Serial Number	First-Named Inventor	Title	Filing Date
	10/177,049	Lloyd Watts	Robust Hearing Systems for Intelligent Machines	June 21, 2002
	09/993,442	Lloyd Watts	Editing of Audio Signals	November 13, 2001
	10/074,991	Lloyd Watts	Filter Set for Frequency Analysis	February 13, 2002
Examiner's Signature:				Date